

ABSTRACT

A circuit arrangement for detecting a usable frequency channel includes first and second devices for performing frequency conversion. The first and second frequency conversion devices have respective local oscillator inputs to which respective local oscillator signals are applied. The local oscillator signals are at a common frequency and have a phase difference of precisely 90° . A complex polyphase filter has first and second filter inputs connected to respective outputs of the first and second frequency conversion devices. A detection arrangement is connected to outputs of the complex polyphase filter in order to detect a signal level. A further arrangement can vary the phase angle of a signal output from at least one of the frequency conversion devices.